

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



Scaled data based on original data using
LM-79-2024 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: NEO-RAY

Report Number: P1061819

Luminaire Tested: S125RDRP-S850D935-X4F0-XX-UDD-WVL-S

Issue Date: 8/7/2025

Test Information

Test Method: LM-79-2024
Report Number: P1061819
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2406-143-85)
Test Lab: INNOVATION CENTER
Issue Date: 8/7/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S125RDRP-S850D935-X4F0-XX-UDD-WVL-S
Description: DEFINE 5 SILVER REGRESSED DIRECT RECESSED HOUSING WITH WHITE STRAIGHT BLADE
LOUVER WITH DIFFUSER
CORE LIGHT ENGINE
Light Source: 3500K CCT, 90 CRI LEDS
Ballast/Driver: -

Summary

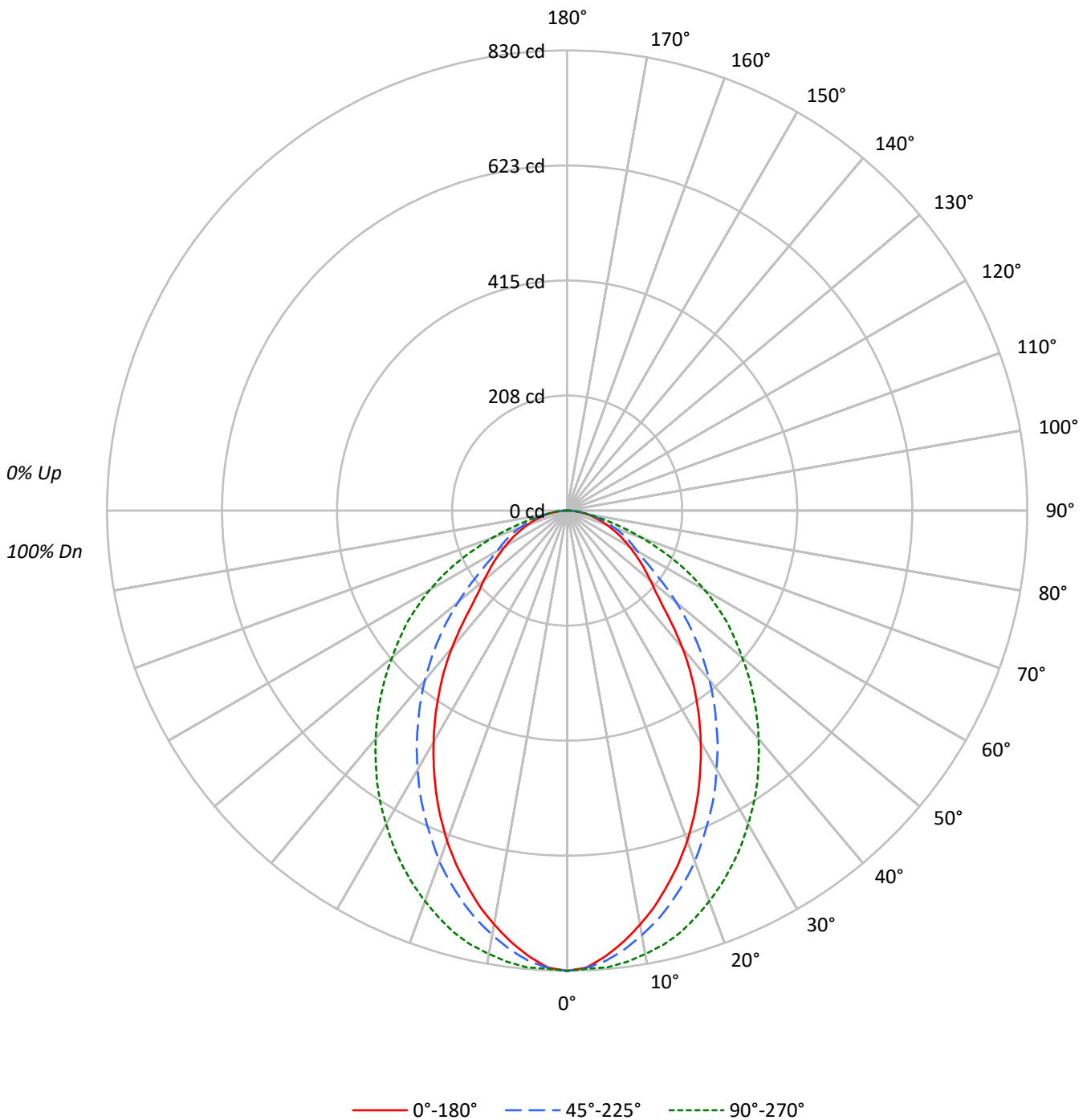
Lumens per Lamp: N/A
Luminaire Lumens: 1556.4 lumens
Efficiency: N/A
Efficacy: 60.3 lumens/watt
Spacing Criteria (0/90/45): 0.94 / 1.18 / 1.12
Luminous Opening: Rectangular (W 0.39' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 25.8
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					20					
RC	80					70					50					30					10					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100					100			
1	110	106	102	99	107	104	100	97	99	97	94	96	93	91	92	90	88					86				
2	101	94	88	83	99	92	86	82	89	84	80	85	81	78	82	79	76					74				
3	93	84	76	71	91	82	75	70	79	74	69	77	72	68	74	70	66					64				
4	86	75	67	61	84	74	67	61	72	65	60	69	64	59	67	62	58					56				
5	80	68	60	54	78	67	59	53	65	58	53	63	57	52	61	56	52					50				
6	74	62	54	48	72	61	53	48	59	52	47	58	52	47	56	51	46					44				
7	69	57	49	43	68	56	48	43	54	47	42	53	47	42	52	46	42					40				
8	65	52	44	39	63	52	44	39	50	43	38	49	43	38	48	42	38					36				
9	61	48	41	35	59	48	40	35	47	40	35	46	39	35	45	39	35					33				
10	57	45	37	32	56	44	37	32	43	37	32	42	36	32	42	36	32					30				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5717	5717	5717
5°	5572	5629	5715
10°	5300	5434	5677
15°	4984	5203	5617
20°	4643	4935	5494
25°	4254	4619	5356
30°	3831	4286	5190
35°	3388	3939	5026
40°	2908	3586	4831
45°	2375	3190	4628
50°	2106	2737	4415
55°	1931	2270	4231
60°	1782	2010	3941
65°	1662	1932	3514
70°	1552	1836	2873
75°	1434	1721	2118
80°	1348	1610	1546
85°	1248	1572	1311

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 4628 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	76.8	4.9
10°-20°	207.0	13.3
20°-30°	284.4	18.3
30°-40°	301.4	19.4
40°-50°	263.1	16.9
50°-60°	199.9	12.8
60°-70°	133.9	8.6
70°-80°	69.0	4.4
80°-90°	20.7	1.3
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	568.2	36.5
0°-40°	869.7	55.9
0°-60°	1332.7	85.6
0°-90°	1556.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1556.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	830	830	830	830	830	
5°	806	814	814	820	827	75
15°	699	712	730	762	788	196
25°	560	577	608	659	705	257
35°	403	426	469	535	598	251
45°	244	268	328	406	475	193
55°	161	166	189	278	352	144
65°	102	104	119	158	216	101
75°	54	57	65	69	80	58
85°	16	20	20	18	17	18
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	830.3	830.3	830.3	830.3	830.3
2.5°	824.5	830.3	825.3	825.3	826.9
5°	806.2	814.5	814.5	820.3	826.9
7.5°	783.8	792.9	797.9	811.2	821.1
10°	758.1	768.1	777.2	797.1	812.0
12.5°	730.7	741.5	755.6	781.3	802.1
15°	699.2	712.5	729.9	762.2	788.0
17.5°	667.7	681.0	702.5	740.7	769.7
20°	633.7	647.8	673.5	715.0	749.8
22.5°	597.2	612.9	640.3	687.6	728.2
25°	559.9	577.3	608.0	658.6	705.0
27.5°	520.9	541.6	574.8	628.7	680.1
30°	481.9	502.6	539.1	598.0	652.8
32.5°	442.9	465.3	505.1	567.3	626.2
35°	403.1	426.3	468.6	535.0	598.0
37.5°	364.1	387.3	434.6	503.5	567.3
40°	323.5	347.5	399.0	471.1	537.5
42.5°	282.0	307.7	363.3	437.9	506.8
45°	243.9	267.9	327.6	405.6	475.3
47.5°	215.7	231.4	292.0	372.4	444.6
50°	196.6	204.9	255.5	340.1	412.2
52.5°	177.5	184.1	221.5	306.9	381.5
55°	160.9	165.9	189.1	277.9	352.5
57.5°	144.3	149.3	164.2	248.8	318.5
60°	129.4	133.5	146.0	218.1	286.2
62.5°	115.3	118.6	131.9	189.1	251.3
65°	102.0	104.5	118.6	158.4	215.7
67.5°	88.7	91.2	105.3	129.4	177.5
70°	77.1	78.0	91.2	105.3	142.7
72.5°	65.5	66.4	77.1	85.4	109.5
75°	53.9	57.2	64.7	68.8	79.6
77.5°	44.0	48.1	52.3	53.9	53.9
80°	34.0	39.0	40.6	40.6	39.0
82.5°	24.9	29.0	29.9	28.2	26.5
85°	15.8	19.9	19.9	18.2	16.6
87.5°	7.5	10.8	10.8	10.0	7.5
90°	0.0	0.0	0.0	0.0	0.0



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CIE UGR TABLE:

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	12.66	14.16	13.03	14.47	14.79	16.59	18.09	16.96	18.40	18.72
	3H	14.23	15.58	14.61	15.90	16.27	18.01	19.36	18.39	19.68	20.05
	4H	14.85	16.11	15.25	16.46	16.83	18.43	19.69	18.83	20.04	20.41
	6H	15.34	16.51	15.76	16.87	17.26	18.64	19.81	19.06	20.17	20.57
	8H	15.52	16.62	15.94	17.01	17.42	18.70	19.81	19.13	20.20	20.60
	12H	15.64	16.70	16.07	17.08	17.51	18.74	19.80	19.17	20.18	20.61
4H	2H	13.40	14.66	13.80	15.01	15.39	16.72	17.98	17.12	18.32	18.70
	3H	15.18	16.22	15.59	16.62	17.03	18.33	19.37	18.74	19.77	20.17
	4H	15.91	16.86	16.35	17.27	17.71	18.85	19.79	19.29	20.21	20.65
	6H	16.55	17.37	17.01	17.81	18.27	19.20	20.01	19.65	20.46	20.92
	8H	16.78	17.54	17.24	17.99	18.46	19.29	20.06	19.76	20.50	20.97
	12H	16.95	17.64	17.44	18.11	18.59	19.37	20.05	19.85	20.53	21.00
8H	4H	16.32	17.08	16.78	17.52	17.99	18.96	19.73	19.42	20.17	20.64
	6H	17.10	17.73	17.60	18.23	18.70	19.40	20.03	19.90	20.52	21.00
	8H	17.43	17.99	17.94	18.50	18.99	19.56	20.12	20.07	20.63	21.12
	12H	17.70	18.20	18.21	18.69	19.26	19.69	20.19	20.20	20.69	21.25
12H	4H	16.36	17.04	16.84	17.52	17.99	18.96	19.64	19.44	20.12	20.59
	6H	17.18	17.75	17.70	18.26	18.75	19.41	19.98	19.93	20.49	20.98
	8H	17.58	18.08	18.09	18.57	19.14	19.62	20.12	20.13	20.62	21.18